

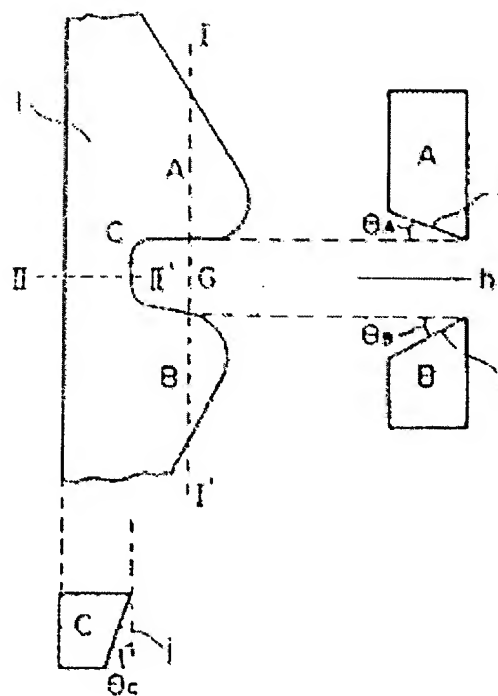
REED FOR AIR JET LOOM

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Abstract of JP3199451

PURPOSE: To obtain a reed saving consuming amount of pressurized air and having excellent stability of weft-inserting at high speed by setting air-converging angles satisfying specific conditions at both the parts of upper and lower jaws forming dents of a reed-introducing groove, setting an air-diffusing angle at an interior part and providing an edge part having a specific radius of curvature at the interior part. **CONSTITUTION:** Air-converging angles θ_A and θ_B satisfying relations of $0 \text{ deg.} \leq \theta_A$, $5 \text{ deg.} \leq \theta_B \leq 30 \text{ deg.}$ and $\theta_A < \theta_B$ are set at an upper jaw part A and a lower jaw part B forming an introducing groove G in dents of a reed 1. Further, an air-diffusing angle θ_C is set at an interior part C in said introducing groove G and simultaneously a radius of curvature of edge part on a main nozzle side in said interior taper part is made to $\leq 0.02 \text{ mm}$ to increase air-converging effect and inhibit flying out of weft from the reed groove G.



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